

CXCR4-Lo Antibody

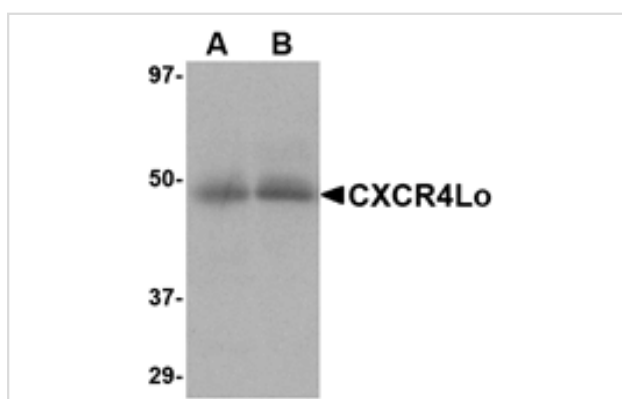
Catalog No: #24624

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Description

Product Name	CXCR4-Lo Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	CXCR4-Lo Antibody is affinity chromatography purified via peptide column.
Applications	ELISA WB ICC
Species Reactivity	Hu
Specificity	This antibody is specific for the longer isoform of CXCR4.
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to nine amino acids near the amino terminus of human CXCR4 isoform a.
Target Name	CXCR4-Lo
Other Names	CXCR4-Lo, Fusin, LESTR, HUMSTR
Accession No.	Swiss-Prot:P61073Gene ID:7852
Uniprot	P61073
GeneID	7852;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of CXCR4 in (A) human spleen and (B) human thymus tissue lysate with CXCR4-Lo antibody at 10 ug/mL.



Immunohistochemistry of CXCR4Lo in HeLa cells with CXCR4Lo antibody at 2 ug/mL.

Background

Human immunodeficiency virus (HIV) and related viruses require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. Among them, CXCR4 is a principal coreceptor for T-cell tropic strains of HIV-1 fusion and entry of human white blood cells. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2. The alpha-chemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types. Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV binding sites.

Note: This product is for in vitro research use only